FIG. 1

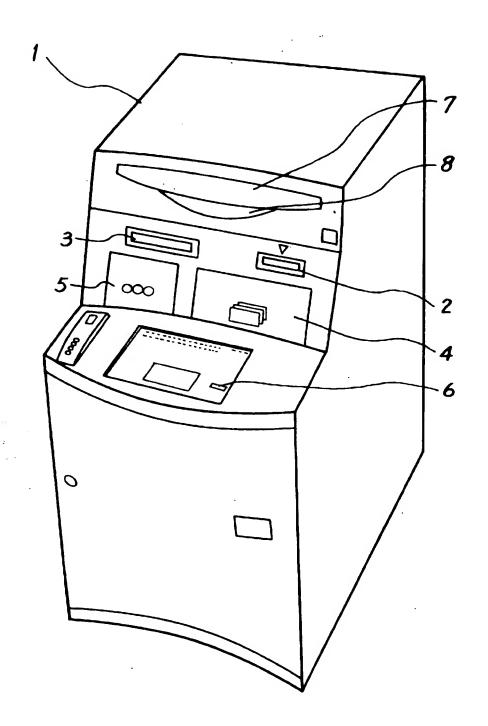
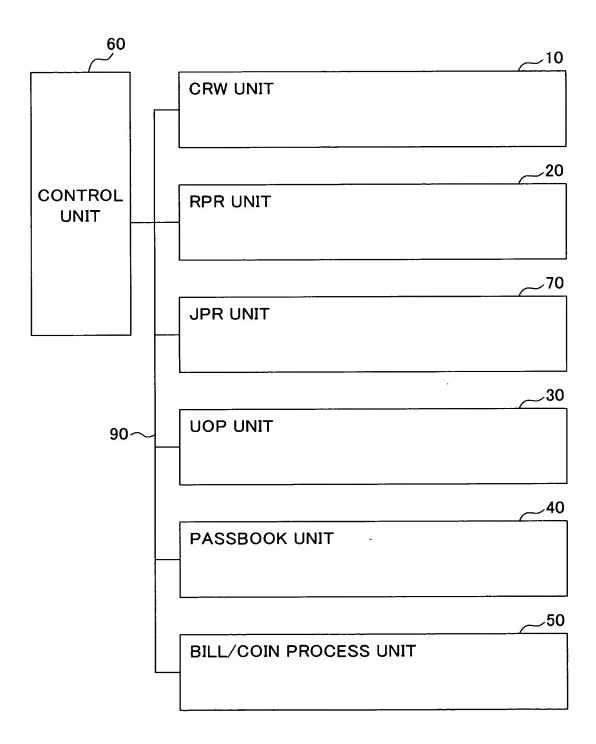
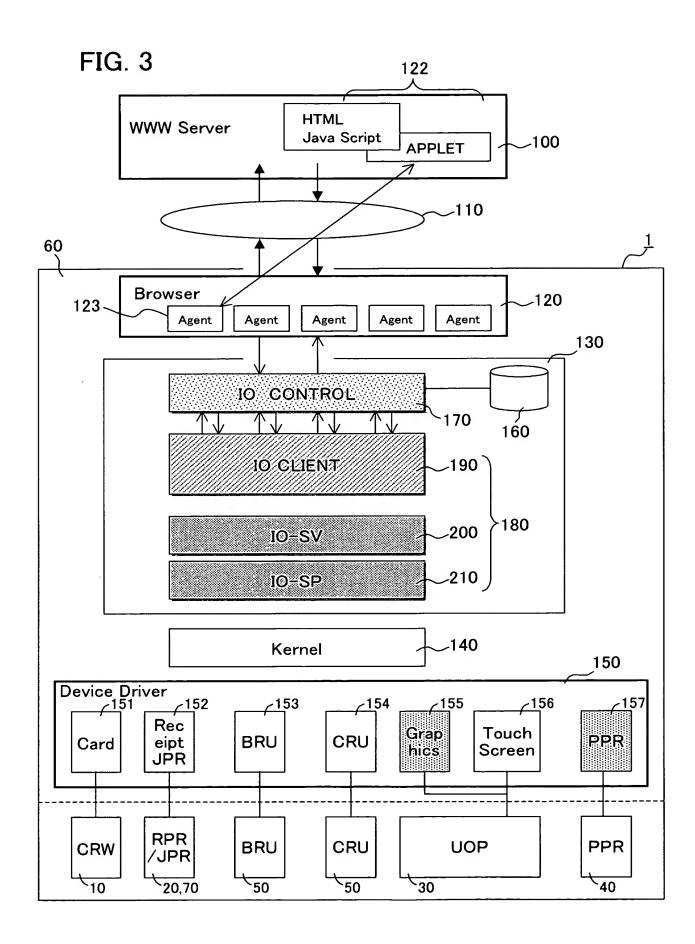
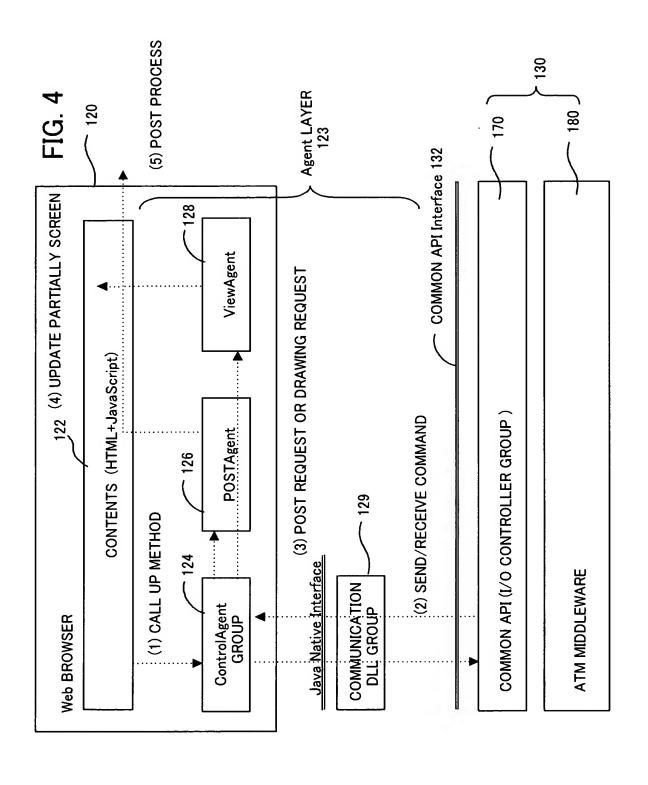


FIG. 2







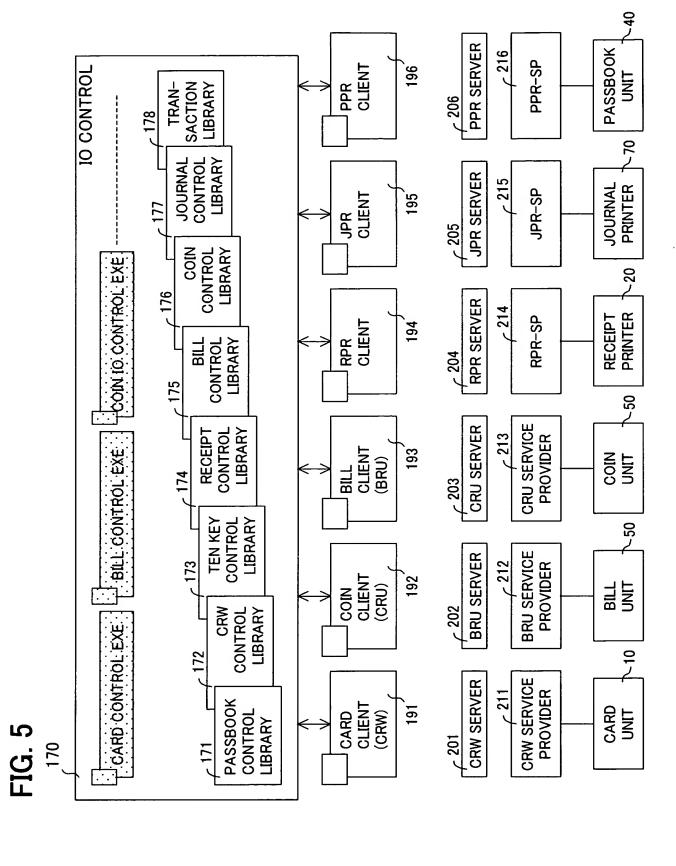


FIG. 6

COMMAND TYPE	COMMAND		
CRW COMMAND	CARD INSERTION		
	CARD EJECT		
RPR COMMAND	PRINT		
	RELEASE		
PPR COMMAND	PASSBOOK INSERTION		
	PRINT		
	MS WRITE		
	PASSBOOK EJECT		
	AUTO TURN PAGE		
BRU COMMAND	INITIALIZATION		
(CRU COMMAND)	ACCEPTANCE/COUNTING		
	STORE		
	DEPOSIT RETURN		
	FEED		
	RELEASE		
	CAPTURE		
	TRANSPORT PATH CHECK		
	JAM RESET		

FIG. 7

PAS		COLLEGE) OI	IO CONTROLLER	LER		!	
REPARE REPARE	Σ	METHOD	NO.	- ā	NO	PAS	CARD	PECEIPT	IOI IBNAI		T T
SEJECT S	SYNCHRONIZATION INITIALIZE		<u> </u>	•			•	•		•	• اي
SEJECT S	SYNCHRONIZATION MECHANISM RESET			•	•	•	•	•	•		
SEJECT S	SYNCHRONIZATION BILL/COIN INSERT			•	•						
FELECT PREPARE	SYNCHRONIZATION MEDIUM SIMULTANEOUS EJECT	JS EJECT		•	•	•	•	•			
TION/SET TRANSACTION DISPLAY L PREPARE RTT RTT RTT REF	SYNCHRONIZATION PRINT/FEED/MS WRITE/EJECT P	/EJECT PREPARE		•	•	•	•	•	•		
TION/SET TRANSACTION DISPLAY PREPARE RT RT TON/SET TRANSACTION TON	SYNCHRONIZATION DEPOSIT RETURN			•	•	-					
FREPARE FREP	SYNCHRONIZATION STORAGE			•	•						
TION/SET TRANSACTION DISPLAY PREPARE RT RT PREPARE	SYNCHRONIZATION FORCE-EJECT/CAPTURE	ш		•	•	•	•	•			
REPA	SYNCHRONIZATION STATUS/TWO-SCREEN DISPLAY	ION/SET TRANSACTION		•	•	•	•	•	•	•	•
REPA	SYNCHRONIZATION CANCEL										
XEPARE • • • • • • • • • • • • • • • • • •	SYNCHRONIZATION										
	SYNCHRONIZATION DEPOSIT/WITHDRAWAL PREPAI	REPARE		•	•						
	SYNCHRONIZATION FORCE REPLENISH			•	•						
	SYNCHRONIZATION JAM RESET			•	•						
	SYNCHRONIZATION CARD/PASSBOOK INSERT	_				•	•				
	POST PROCESS		•								
	POST DATA HOLD		•								
• •	FONT SET		•								
•	TEXT DISPLAY		•								
	TEXT ERASE		•								

FIG. 8

	TEN KEY						••
IO CONTROLLER	TRANS- ACTION					• • • •	
	TRANS- RECEIPT JOURNAL ACTION						
	RECEIPT				••		
	CARD			••••			
00	PAS BOOK		• • • •				
	NIOS						
	BILL	••••					
	NONE						
	METHOD	RECEIPT/COUNTING STORAGE DEPOSIT RETURN RELEASE CANCEL	PRINT LINE SET/PAGE MARK READ MS READ AUTO TURN PAGE PAGE CHECK AUTO TURN SET PASSBOOK TYPE INFORMATION	CARD INSERT CANCEL MONEY TRANSFER CARD PRINT MONEY TRANSFER CARD ISSUE	REGISTER OVERLAY EJECT PREPARE	SET TRANSACTION INFORMATION MONITOR DEVICE STATUS OBTAIN DEVICE STATUS SET OSPERATION INFORMATION CANCEL	TEN KEY INPUT START TEN KEY INPUT END
	AGENT	BILL CONTROL	PASSBOOK CONTROL	CARD CONTROL	RECEIPT CONTROL REGISTER OVERLAY EJECT PREPARE	TRANSACTION CONTROL	TEN KEY

```
ret = document.U_agtSync_.initial.initial (inputParam, parseInt(postMode), parseInt(maxTimer));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // MAKE MAYSCRIPT DEFINITION SUCH THAT POSTAgent CALLS UP FUNCTION OF Java Script
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // DEFINE FUNCTION THAT IS CALLED UP FROM POSTAgent (REQUISITE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    function postFunc(postData){    document.sys_form.ioResponse.value = postData;
                                                                                                                                                                                                                                                                                                               <APPLET CODE="U_agtSync_initial.class" codebase = "http://webatm:8080/webatm"
WIDTH="0" HEIGHT="0" NAME="U_agtSync_initial" >
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              // CALL UP INITIAL METHOD IN SYNCHRONIZATION Agent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <APPLET CODE="U_agtPost.class" codebase = "http://webatm:8080/webatm"</pre>
                                                                                                                                                                                                                                                                              // SPECIFY AGENT WHICH IS CALLED UP IN THE SCREEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   window.document.sys_form.submit();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WIDTH="0" HEIGHT="0" NAME="U_agtPost" MAYSCRIPT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // ABNORMAL NOTIFY PROCESS
                                                                                 <TITLE>WebATM Sample</TITLE>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ~DMIT~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <SCRIPT language="javascript">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if (ret < 0) {
                                                                                                                                                                                                                                                                                                                                                                                                              </APPLET>
                                                                                                                             </HEAD>
                                                                                                                                                                                                        (BODY)
CHTML
                                         (HEAD)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  个>
```

</SCRIPT>
</BODY>
</HTML>

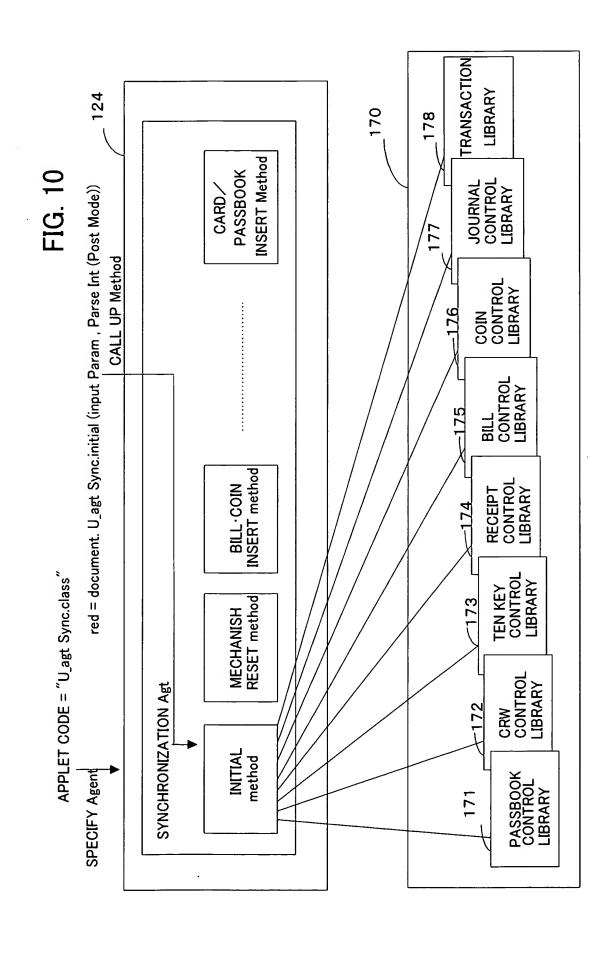


FIG. 11

Input Param

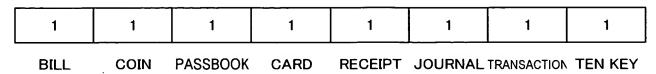
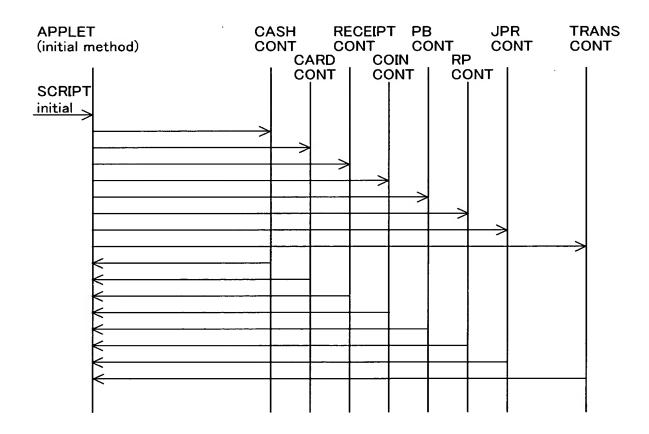


FIG. 12



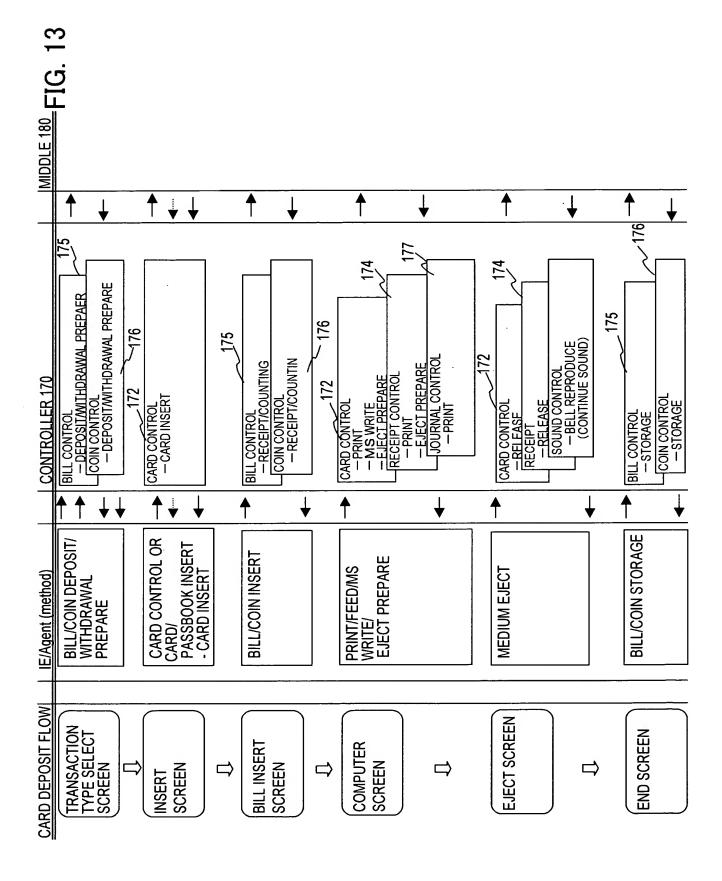


FIG. 14

INITIAL DEPOSIT SCREEN CANCEL PLEASE INSERT BILL AND COIN YOU CAN INSERT UP TO XXX SHEET OF BILLS AND XXX PIECE OF COINS **ILLUSTRATION ETC. BILL INSERT SCREEN** CANCEL **COUNTING BILLS INSERT COINS IF NECESSARY** ILLUSTRATION ETC.

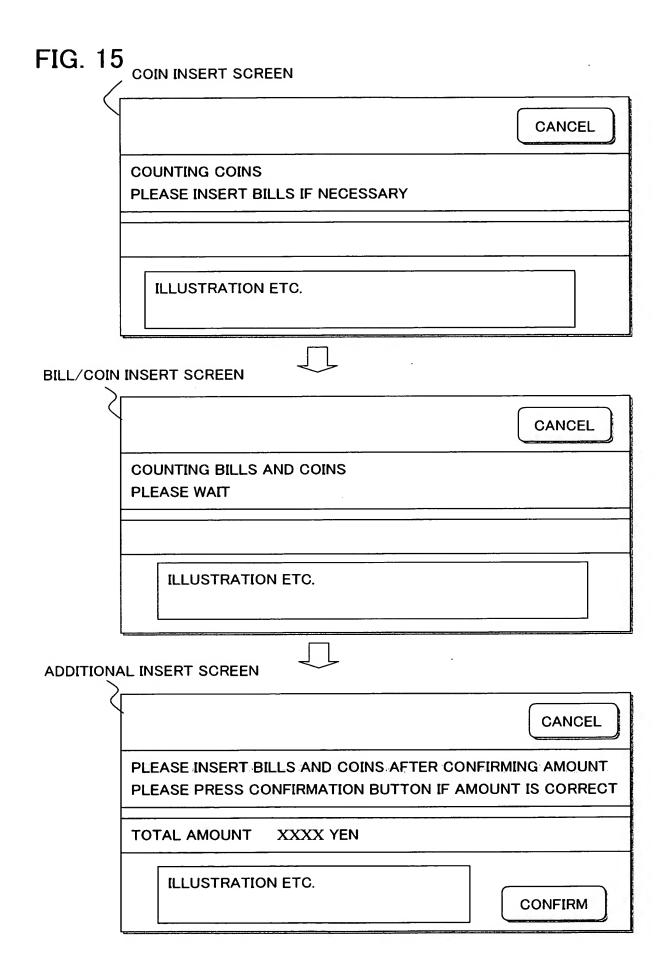
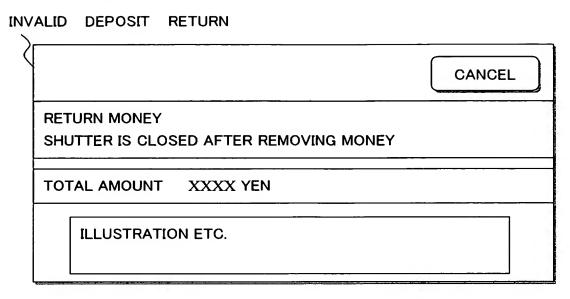


FIG. 16



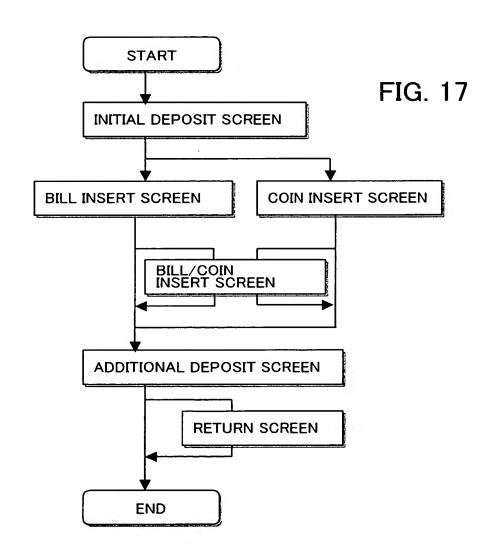
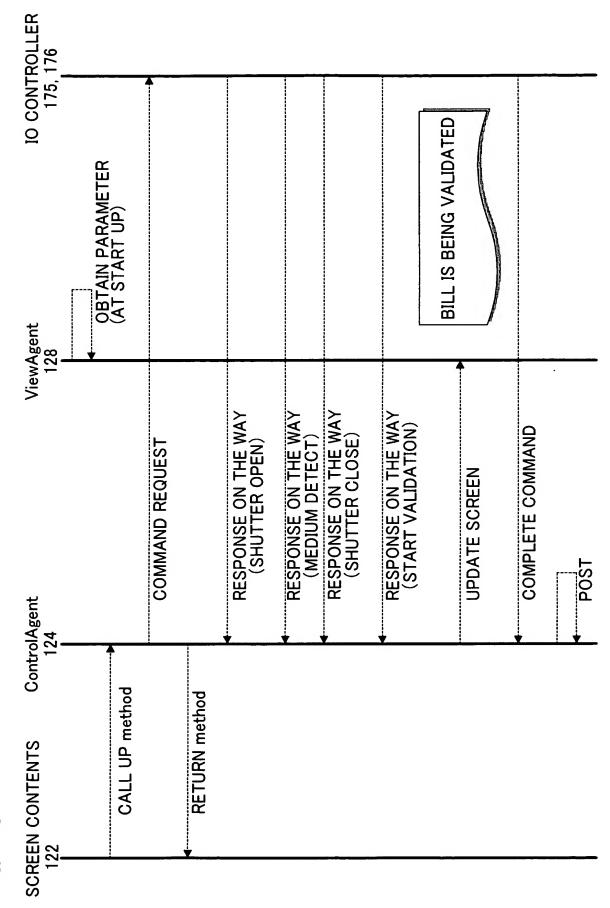


FIG. 18



```
<HTML>
<HEAD>
<TITLE> Web ATM Sample</TITLE>
                                                                             FIG. 19
<META http-equiv="Content-Type" content="text/html; charset=shift jis">
<BODY background="http://webatm:8080/webatm/xxx.bmp">
// SPECIFY Agent which is called up in the screen
<APPLET CODE="U_agtSync_insertCash.insertCash" CODEBASE="http://webatm:8080/webatm"</pre>
      WIDTH=0 HEIGHT=0 NAME="U_agtSync_insertCash" MAYSCRIPT>
</applet>
// MAKE MAYSCRIPT definition such that POSTAgent calls up function of JavaScript
<APPLET CODE="U agtPost" CODEBASE = "http://webatm:8080/webatm"</pre>
      WIDTH=0 HEIGHT=0 NAME="U agtPost" MAYSCRIPT>
</applet>
// SPECIFY View Agent
<APPLET CODE="U agtView" CODEBASE="http://webatm:8080/webatm"</pre>
      WIDTH=100 HEIGHT=100 ALIGN=LEFT HSAPCE=10 VSPACE=10 NAME="U agtView">
<PARAM NAME=fontKind Value="Serif'>
<PARAM NAME=fontPoint Value="14">
<PARAM NAME=fontStyle Value="Bold">
<PARAM NAME=fontColor Value="Red">
<PARAM NAME=fontColor Value="Red">
<PARAM NAME=background Value="black">
                                                            PARAMETER definition of ViewAgent
<PARAM NAME=startX Value="10">
<PARAM NAME=startY Value="10">
<PARAM NAME=endX Value="100">
<PARAM NAME=endY Value="80">
<PARAM NAME=text Value="BILL IS BEING VALIDATED"</pre>
</applet>
<SCRIPT language="javascript">
<! - -
     // DEFINE FUNCTION which is called up from POSTAgent (requisite)
    function postFunc(postData){
         document.sys_form.ioResponse.value = postData;
         window.document.sys_form.submit();
// -->
</SCRIPT>
<FORM name="sys form" method="post" action="http://webatm:8080/webatm/main.jsp">
     <font size=10>PLEASE INSERT BILL/COIN </font>
      <BR>
      <HR>
</FORM
<SCRIPT language="javascript">
<! - -
     //CALL UP ControlAgent
      ret = document.U_agtSync_insertCash.insertCash(insertCashMode,inputParam,postMode,maxTimer);
     if(ret < 0) {
      //ABNORMAL NOTIFY PROCESS
     ~OMIT~
     }
// -->
</SCRIPT>
</BODY>
</HTML>
```

IO CONTROLLER 175, 176 **BILL IS BEING VALIDATED** ViewAgent 128 RESPONSE ON THE WAY (MEDIUM DETECT)
RESPONSE ON THE WAY (SHUTTER CLOSE) RESPONSE ON THE WAY (SHUTTER OPEN) RESPONSE ON THE WAY (START VALIDATION) COMPLETE COMMAND COMMAND REQUEST POST ControlAgent 124 CALL UP function CALL UP method **RETURN** method RETURN method SCREEN CONTENTS 122 UPDATE FIG. 20

```
<HTML>
                                                                                    FIG. 21
<HEAD>
<META http-equiv="Content-Type" content="text/html; charset=shift jis">
<TITLE>WebATM sample</TITLE>
</HEAD>
<BODY background="http://webatm:8080/webatm/xxx.bmp">
// SPECIFY Agent which is called up in the screen
<applet code="U_agtSync_insertCash.insertCash" codebase="http://webatm:8080/webatm"
      width=0 height=0 name="U agtPost" MAYSCRIPT>
</applet>
// MAKE MAYSCRIPT definition such that POSTAgent calls up function of JavaScript
<applet code="U agtPost" codebase = "http://webatm:8080/webatm"
      width=- height=p name="U_agtPost" MAYSCRIPT>
</applet>
// SPECIFY View Agent
<applet code="U agtView" codebase="http://webatm:8080/webatm"
      width=100 height=100 align=left hspace=10 vspace=10 name="U_agtView">
</applet>
<SCRIPT language="javascript">
     // DEFINE FUNCTION which is called up from POSTAgent (requisite)
     function postFunc (postData){
         document.sys_form.ioResponse.value = postData;
         window.document.sys_form.submit();
     }
     //DEFINE FUNCTION which is called up from ControlAgent (requisite)
     function insertCashFunc(eventKind, billVal, coinVal){
         switch (eventKind){
             case 1: //START VALIDATION (BILL)
                 // CALL UP ViewAgent
                 ret =document.U agtView.setFont (fontKind, fontPoint, fontStyle, fontColor, background);
                 ret =document.U agtView.showText (startX, startY, endX, endY, text);
                 break;
             case 2: //START VALIDATION (COIN)
                  ~OMIT~
             case n: //END VALIDATION (BILL/COIN)
                  ~OMIT~
</SCRIPT>
<FORM name="sys_form" method="post" action="http://webatm:8080/webatm/main.jsp">
      <font size=10>PLEASE INSERT BILL/COIN </font>
      <BR>
      <HR>
</FORM
<SCRIPT language="javascript">
<! - -
      //CALL UP ControlAgent
      ret = document.U_agtSync_insertCash.insertCash (insertCashMode, inputParam, postMode, maxTimer);
      if(ret < 0) {
       #ABNORMAL NOTIFY PROCESS
      ~OMIT~
// -->
</SCRIPT>
</BODY>
</HTML>
```

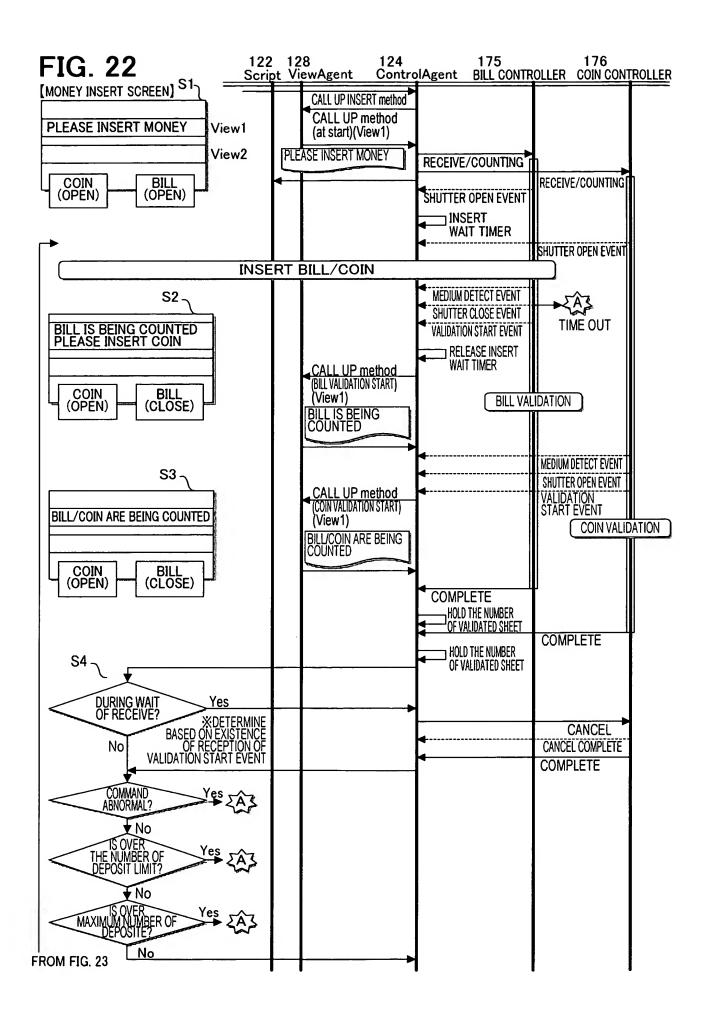


FIG. 23

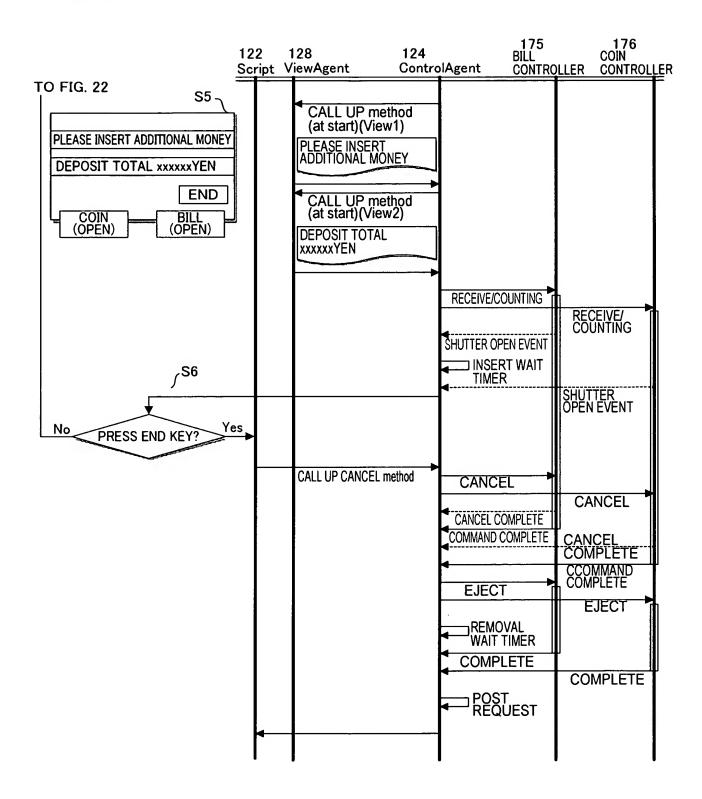


FIG. 24

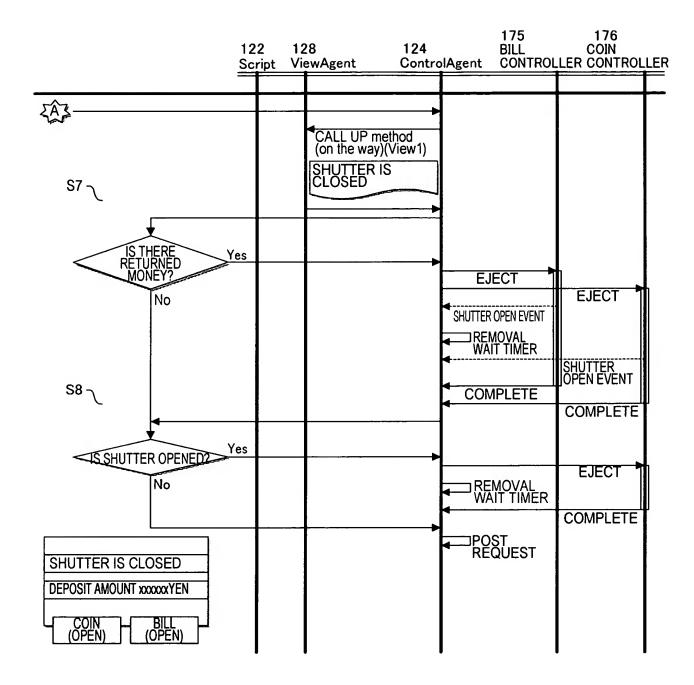


FIG. 25

	,				T
	EN L	KEY	•		
IO CONTROLLER	TRANS-	ACTION	•		
		RECEIPT JOURNAY ACTION	• • •		
		RECEIPT	• • • •		
		CARD	• • • • •		
)) 	PAS	BOOK	•• •• •		
		COIN	••••••		
		BILL	••••••		
		NONE		• •	• • •
МЕТНОВ			INITIALIZE MECHANISM RESET BILL/COIN INSERT MEDIUM. SIMUL TANEOUS EJECT PRINT/FEED/MS WRITE/EJECT PREPARE DEPOSIT RETURN STORAGE FORCE-EJECT/CAPTURE OBTAIN UNIT INFORMATION/SET TRANSACTION STATUS/TWO-SCREEN DISPLAY DEPOSIT/WITHDRAWAL PREPARE FORCE REPLENISH JAM RESET CARD/PASSBOOK INSERT	POST PROCESS POST DATA HOLD	FONT SET TEXT DISPLAY TEXT ERASE
	AGENT		SYNCHRONIZATION INITIALIZE MECHANIS BILL/COIN MEDIUM SI PRINT/FEE DEPOSIT R STATUS/TV DEPOSITIV STATUS/TV DEPOSITIV STATUS/TV DEPOSITIV DEPOSITIV STATUS/TV DEPOSITIV DEPOSITIV CARD/PAS	POST	TEXT DISPLAY

```
ret = document.U_agtSync_initial (inputParam, parseInt(postMode), parseInt(maxTimer));
                                                                                                                                                                                                                                                                                                                                                                                                                                             // MAKE MAYSCRIPT DEFINITION SUCH THAT POSTAgent CALLS UP FUNCTION OF Java Script
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // DEFINE FUNCTION THAT IS CALLED UP FROM POSTAgent (REQUISITE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     function postFunc(postData){    document.sys_form.ioResponse.value = postData;
                                                                                                                                                                                                                                                                                             <APPLET CODE="U_agtSync_class" codebase = "http://webatm:8080/webatm"</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <APPLET CODE="U_agtPost.class" codebase = "http://webatm:8080/webatm"
WIDTH="0" HEIGHT="0" NAME="U_agtPost" MAYSCRIPT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               // CALL UP INITIAL METHOD IN SYNCHRONIZATION Agent
                                                                                                                                                                                                                                                         // SPECIFY AGENT WHICH IS CALLED UP IN THE SCREEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               window.document.sys_form.submit();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    // ABNORMAL NOTIFY PROCESS
                                                                                                                                                                                                                                                                                                                                 WIDTH="0" HEIGHT="0" NAME="U_agtSync" >
                                                                            <TITLE>WebATM Sample</TITLE>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ~OMIT~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <SCRIPT language="javascript">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if (ret < 0)
                                                                                                                                                                                                                                                                                                                                                                           </APPLET>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   </SCRIPT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         </BODY>
                                                                                                                  </HEAD>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             </HTML>
                                                                                                                                                                                    <BODY>
<hr/>HTM</hr>
                                      (HEAD)
```

FIG. 27 **PRIOR ART** 300 WWW Server HTML 502 </APPLET> **<SCRIPT>** method 500 APPLET & A method & 510 B method 400 **MTA BROWSER** 410 500 **EMBEDDED OBJECT** 510. **DEVICE INTERFACE** 420 DEVICE INTERFACE SORTING SECTION PPR **CRW RPR** BRU INT INT INT INT 430 431 432 433 RPR BRU **CRW PPR** / JPR 443 441 442 440

FIG. 28

PRIOR ART

FIG. 29

PRIOR ART

